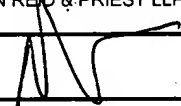
 <p>TRANSMITTAL FORM</p> <p>(to be used for all correspondence after initial filing)</p>	Application Number	10/657,144
	Filing Date	September 9, 2003
	First Named Inventor	David Alexander
	Art Unit	3714
	Examiner Name	John Sotomayor
	Attorney Docket Number	IMMR-IMD0002E
Total Number of Pages in This Submission		20

ENCLOSURES (check all that apply)

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form
<input checked="" type="checkbox"/> Fee Attached
<input type="checkbox"/> Amendment / Reply
<input type="checkbox"/> After Final
<input type="checkbox"/> Affidavits/declaration(s)
<input type="checkbox"/> Extension of Time Request
<input type="checkbox"/> Express Abandonment Request
<input checked="" type="checkbox"/> Information Disclosure Statement
<input type="checkbox"/> Certified Copy of Priority Document(s)
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application
<input type="checkbox"/> Reply to Missing Parts under 37 CFR1.52 or 1.53 | <input type="checkbox"/> Drawing(s)
<input type="checkbox"/> Licensing-related Papers
<input type="checkbox"/> Petition
<input type="checkbox"/> Petition to Convert to a Provisional Application
<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address
<input type="checkbox"/> Terminal Disclaimer
<input type="checkbox"/> Request for Refund
<input type="checkbox"/> CD, Number of CD(s) _____
<input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Status Letter
<input type="checkbox"/> Other Enclosure(s) (please identify below): |
|---|--|--|

Remarks**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

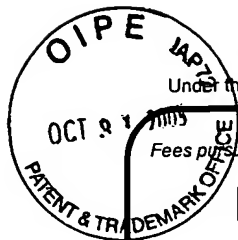
Firm	THELEN REDD & PRIEST LLP		
Signature			
Printed Name	David B. Ritchie		
Date	10/26/2005	Reg. No.	31,562

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Beatrice Orozco	Date	10/27/2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL for FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/657,144
Filing Date	September 9, 2003
First Named Inventor	David Alexander
Examiner Name	John Sotomayor
Art Unit	3714
Attorney Docket No.	IMMR-IMD0002E

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify) : _____

☒ Deposit Account Deposit Account Number: 50-1698 Deposit Account Name: THELEN REID & PRIEST LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below

☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s)

☒ Credit any overpayments

Under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	Fee(\$)	Small Entity Fee(\$)	
Utility	300	150	500	250	200	100	_____
Design	200	100	100	50	130	65	_____
Plant	200	100	300	150	160	80	_____
Reissue	300	150	500	250	600	300	_____
Provisional	200	100	0	0	0	0	_____

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)

Fee (\$)

Small Entity Fee (\$)

Each independent claim over 30 (including Reissues)

50

25

Multiple dependent claims

200

100

360

180

Total Claims

Extra Claims

Fee(\$)

Fee Paid (\$)

Multiple Dependent Claims

_____ -20 or HP= _____ x _____ = _____

Fee (\$)

Fee Paid (\$)

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims

Extra Claims

Fee(\$)

Fee Paid (\$)

_____ - 3 or HP= _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____ / 50 = _____ (round up to a whole number) x _____	_____	_____

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge) : (1806) IDS

Fees Paid (\$)

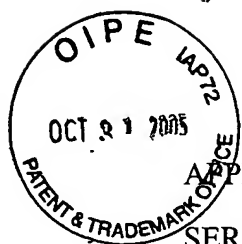
180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	31,562	Telephone	(408) 292-5800
Name (Print/Type)	David B. Ritchie	Date	10/26/5		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: David Alexander et al.
SERIAL NO.: 10/657,144 CONFIRMATION NO.: 1898
FILING DATE: September 9, 2003
TITLE: Interface Device and Method for Interfacing Instruments to Medical Procedure Simulation Systems
EXAMINER: John Sotomayor (Tel. No.: (571) 272-4456)
(Fax. No.: (703)872-9306)
ART UNIT: 3714

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: MAIL STOP: Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Date:

10/27/2005

Name:

Beatrice Orozco
Beatrice Orozco

MAIL STOP: AMENDMENT
COMMISSIONER FOR PATENTS
P.O. Box 1450
ALEXANDRIA, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Each item of information listed in the attached FORM PTO-1449, for which a copy of each is attached (unless the blanket waiver referred to below applies), may be material to the examination of the above-identified application and is, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR §§ 1.56, 1.97 and 1.98. The Examiner is requested to review, consider and document each such item in the official record of this application.

Note: If this box ☒ is checked, this case was filed after June 30, 2003 and qualifies for the blanket waiver of deposit of copies of U.S. Patents and U.S. Patent Application Publications in accordance with the written waiver of 37 CFR §1.98 (a)(2)(i) dated July 11, 2003. Accordingly, such copies are not attached.

This Information Disclosure Statement under 37 CFR §§ 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

I

This statement is filed pursuant to (**CHECK ONE BOX**):

☐

37 C.F.R. § 1.97(b).

This information disclosure statement is filed either:

- (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
- (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in an international application;
- (3) before the mailing date of a first office action on the merits; **or**
- (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114, **whichever event occurs last.**

Accordingly, this information disclosure statement requires no fee and no certification.

☒

37 C.F.R. § 1.97(c).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97(b), but **before** the mailing date of any of the following:

- (1) a final action under 37 C.F.R. § 1.113;
- (2) a notice of allowance under 37 C.F.R. § 1.311; **or**
- (3) an action that otherwise closes prosecution in the application.

Accordingly, this information disclosure statement requires either:

- (1) the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c); **or**
- (2) a certification according to 37 C.F.R. § 1.97 (e)(1) or (2).

☐

37 C.F.R. § 1.97(d).

This information disclosure statement is filed **after** the period specified in 37 C.F.R. § 1.97 (c).

Accordingly, this information disclosure statement requires:

- (1) a certification in accordance with 37 C.F.R. § 1.97(e); **and**
- (2) the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. **To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.**

II

Fees Due (**CHECK ONE BOX**):

- ☐ No fee is due.
- ☒ The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) or 37 C.F.R. § 1.97(d) is enclosed (\$180).

III

Certification (**CHECK ONE BOX**):

- ☒ No certification is necessary.
- ☐ Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned hereby certifies:
That each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- ☐ Pursuant to 37 C.F.R. § 1.97(e)(2), the undersigned hereby certifies:
No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this information disclosure statement.


IV

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698.

Respectfully submitted,
THELEN REID & PRIEST LLP

Dated: October 26, 2005



David B. Ritchie
Registration No. 31,562

THELEN REID & PRIEST LLP
P.O. Box 640640
San Jose, CA 95164-0640
Telephone: (408) 292-5800
Fax: (408) 287-8040

OCT 31 2005

Form PTO 159 (Rev. 2-32)				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144	
Information Disclosure Statement by Applicant						Applicant: David Alexander et al.			
(Use several sheets if necessary)						Filed: September 9, 2003		Group: 3714	
U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
	A	2,972,140	9/23/1958	J. Hirsch					
	B	3,157,853	12/6/1957	J. Hirsch					
	C	3,220,121	11/30/1965	A.E. Cutler					
	D	3,226,846	1/4/1966	W.C. Wood					
	E	3,304,434	2/14/1967	R.A. Koster					
	F	3,497,668	2/24/1970	J. Hirsch					
	G	3,517,446	6/30/1970	P.R. Corlyon et al.					
	H	3,541,541	11/17/1970	P.C. Engelbart					
	I	3,623,064	11/23/1971	Kagan					
	J	3,748,366	7/24/1973	Rader et al.					
	K	3,775,865	12/4/1973	Kowan					
	L	3,902,687	9/2/1975	Hightower					
	M	3,903,614	9/9/1975	Diamond et al.					
	N	3,911,416	10/7/1975	Feder					
	O	4,127,752	11/28/1978	Lowthorp					
	P	4,160,508	7/10/1979	Salisbury, Jr.					
	Q	4,236,325	12/2/1980	Hall et al.					
	R	4,262,549	4/21/1981	Schwellenbach					
	S	4,321,047	3/23/1982	Landis					
	T	4,333,070	6/1/1982	Barnes					
Foreign Documents									
								Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
	U	H2-185278	1/12/1989	JP			X		
	V	H4-8381	4/25/1990	JP			X		
	W	H5-192449	1/20/1992	JP			X		
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)									
	X	Adelstein, "A Virtual Environment System for the Study of Human Arm Tremor", Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989, 33 pages.							
	Y	Adelstein et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research", DSC-Vol. 42, Advances in Robotics ASME, 1992, pp. 1-12.							
	Z	Aukstakalnis, et al., "Silicon Mirage: The Art and Science of Virtual Reality", 1992, pp. 129-180.							
	AA	Baigrie, Stephan A., "Electric Control Loading - A Low Cost, High Performance Alternative", Proceedings of Interservice/Industry Training Systems Conference, November 6-8, 1990, pp. 247-254.							
Examiner					Date Considered				
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.									

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144		
Information Disclosure Statement by Applicant				Applicant: David Alexander et al.				
(Use several sheets if necessary)				Filed: September 9, 2003		Group: 3714		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
	AB	4,360,345	11/23/1982	Hon				
	AC	4,409,479	10/11/1983	Sprague et al.				
	AD	4,423,428	12/27/1983	Kuwabara et al.				
	AE	4,459,113	7/10/1984	Boscaro Gatti et al.				
	AF	4,464,117	8/7/1984	Foerst				
	AG	4,484,191	11/20/1984	Vavra				
	AH	4,490,810	12/25/1984	Hon				
	AI	4,513,235	4/23/1985	Acklam et al.				
	AJ	4,581,491	4/8/1996	Boothroyd				
	AK	4,599,070	7/8/1986	Hladky et al.				
	AL	4,642,055	2/10/1987	Saliterman				
	AM	4,708,656	11/24/1987	de Vries et al.				
	AN	4,712,101	12/8/1987	Culver				
	AO	4,713,007	12/15/1987	Alban				
	AP	4,726,772	2/23/1988	Amplatz				
	AQ	4,767,333	8/30/1988	Born				
	AR	4,773,865	9/27/1988	Baldwin				
	AS	4,789,340	12/6/1988	Zikria				
	AT	4,794,392	12/27/1988	Selinko				
	AU	4,804,328	2/14/1989	Barrabee				
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
	AV	H7-24147	7/12/1993	JP			X	
	AW	0 349 086	6/29/1988	EP			X	
	AX	0 970 714	1/12/2000	EP			X	
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
	AY	Bejczy, et al., "A Laboratory Breadboard System for Dual-Arm Teleoperation", SOAR '89 Workshop, July 25-27, 1989, pp. 1-12.						
	AZ	Bejczy et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators", Proceedings of Fourth CISM-IFToMM, September 8-12, 1981.						
	BA	Bejczy et al., "Kinesthetic Coupling Between Operator and Remote Manipulator", International Computer Technology Conference, The American Society of Mechanical Engineers, August 12-15, 1980.						
	BB	Bejczy, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation", Science, vol. 208, no. 4450, 1980, pp. 1327-1335.						
Examiner					Date Considered			
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.								

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144		
Information Disclosure Statement by Applicant				Applicant: David Alexander et al.				
(Use several sheets if necessary)				Filed: September 9, 2003		Group: 3714		
U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
	BC	4,807,158	2/21/1989	Blanton et al.				
	BD	4,867,168	9/19/1989	Stoor et al.				
	BE	4,867,685	9/19/1989	Brush et al.				
	BF	4,879,668	11/7/1989	Cline et al.				
	BG	4,885,565	12/5/1989	Embach				
	BH	4,891,764	1/2/1990	McIntosh				
	BI	4,907,973	3/13/1990	Hon				
	BJ	4,930,770	6/5/1990	Baker				
	BK	4,934,694	6/19/1990	McIntosh				
	BL	4,936,862	6/26/1990	Walker et al.				
	BM	4,936,892	6/26/1990	Gehring et al.				
	BN	4,955,654	9/11/1990	Tsuchihashi et al.				
	BO	5,019,761	5/28/1991	Kraft				
	BP	5,022,384	6/11/1991	Freels et al.				
	BQ	5,022,407	6/11/1991	Horch et al.				
	BR	5,035,242	7/30/1991	Franklin et al.				
	BS	5,038,089	8/6/1991	Szakaly				
	BT	5,044,956	9/3/1991	Behensky et al.				
	BU	5,077,608	12/31/1991	Dubner				
	BV	5,078,152	1/7/1992	Bond et al.				
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
	BW	2 252 656	8/12/1992	GB			X	
	BX	2 288 686	10/25/1995	GB			X	
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
	BY	Bejczy et al., "Universal Computer Control System (UCCS) for Space Telerobots", IEEE, March 31-April 3, 1987, pp. 318-324.						
	BZ	Bliss et al., "Optical-to-Tactile Image Conversion for the Blind", IEEE Transaction of Man-Machine Systems, Vol. MMS-11, No. 1, March 1970, pp. 58-65.						
	CA	Brooks et al., "Hand Controllers for Teleoperation", A State-of-the-Art Technology Survey and Evaluation, JPL Publication 85-11, March 1, 1985, pp. 1-84.						
	CB	Burdea et al., "Distributed Virtual Force Feedback", IEEE International Conference on Robotics and Automation, May 2, 1993, pp. 25-44.						
Examiner					Date Considered			
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.								

Form PTO 1449 (Rev. 2-32)				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144	
Information Disclosure Statement by Applicant						Applicant: David Alexander et al.			
(Use several sheets if necessary)						Filed: September 9, 2003		Group: 3714	
U.S. Patent Documents									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
	CC	5,086,401	2/4/1992	Glassman et al.					
	CD	5,099,846	3/31/1992	Hardy					
	CE	5,112,228	5/12/1992	Zouras					
	CF	5,130,794	7/14/1992	Ritchey					
	CG	5,137,458	8/11/1992	Unas et al.					
	CH	5,149,270	9/22/1992	McKeown					
	CI	5,165,897	11/24/1992	Johnson					
	CJ	5,175,459	12/29/1992	Danial et al.					
	CK	5,185,561	2/9/1993	Good et al.					
	CL	5,186,695	2/16/1993	Mangseth et al.					
	CM	5,205,289	4/27/1993	Hardy et al.					
	CN	5,212,473	5/18/1993	Louis					
	CO	5,220,260	6/15/1993	Schuler					
	CP	5,222,499	6/29/1993	Allen et al.					
	CQ	5,240,417	8/31/1993	Smithson et al.					
	CR	5,261,404	11/16/1993	Mick et al.					
	CS	5,271,290	12/21/1993	Fischer					
	CT	5,273,038	12/28/1993	Beavin					
	CU	5,275,174	1/4/1994	Cook					
	CV	5,283,970	2/8/1994	Aigher					
Foreign Documents									
								Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)									
	CW	Caldwell et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System", IEEE, 1993, pp. 955-960.							
	CX	Cyberman Technology Specification, Logic Cyberman SWIFT Supplement to Logitech Mouse Reference and Programming Guide, April 5, 1994, pp. 1-29.							
	CY	Calder, "Design of a Force-Feedback Touch-Inducing Actuator for Teleoperator Robot Control", Bachelor of Science Thesis, MIT, May 1993, pp. 1-37.							
	CZ	Eberhardt et al., "Inducing Dynamic Haptic Perception by the Hand: System Description and Some Results", DSC-Vol. 56-1, Dynamic Systems and Control, Vol. 1, ASME, 1984, pp. 345-351.							
Examiner					Date Considered				
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.									

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144	
Information Disclosure Statement by Applicant				Applicant: David Alexander et al.			
(Use several sheets if necessary)				Filed: September 9, 2003		Group: 3714	
U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
	DA	5,295,694	3/22/1994	Levin			
	DB	5,299,810	4/5/1994	Pierce et al.			
	DC	5,309,140	5/3/1994	Everett, Jr. et al.			
	DD	5,311,422	5/10/1994	Loftin et al.			
	DE	5,320,326	6/14/1994	Ju et al.			
	DF	5,320,537	6/14/1994	Watson			
	DG	5,320,538	6/14/1994	Baum			
	DH	5,322,441	6/21/1994	Lewis et al.			
	DI	5,333,106	7/26/1994	Lanpher et al.			
	DJ	5,334,027	8/2/1994	Wherlock			
	DK	5,338,198	8/16/1994	Wu et al.			
	DL	5,343,871	9/6/1994	Bittman et al.			
	DM	5,354,202	10/11/1994	Moncrief et al.			
	DN	5,376,007	12/27/1994	Zirm			
	DO	5,377,116	12/27/1994	Wayne et al.			
	DP	5,385,474	1/31/1995	Brindle			
	DQ	5,389,865	2/14/1995	Jacobus et al.			
	DR	5,391,081	2/21/1995	Lampotang et al.			
	DS	5,403,191	4/4/1995	Tuason			
	DT	5,414,337	5/9/1995	Schuler			
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
	DU	Eberhardt et al., "OMAR-A Haptic Display for Speech Perception by Deaf and Deaf-Blind Individuals", IEEE, 1993, pp. 195-201.					
	DV	Gobel et al., "Tactile Feedback Applied to Computer Mice", International Journal of Human-Computer Interaction, vol. 7, no. 1, 1995, pp. 1-5.					
	DW	Gotow et al., "Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback", Proceedings of the 1989 American Control Conference, June 21-23, 1989, pp. 332-337.					
	DX	Howe, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation", IEEE, 1992, pp. 1321-1326.					
Examiner					Date Considered		
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.							

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. IMMR-IMD0002E		Serial No. 10/657,144	
Information Disclosure Statement by Applicant				Applicant: David Alexander et al.			
(Use several sheets if necessary)				Filed: September 9, 2003		Group: 3714	
U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
	DY	5,436,622	7/25/1995	Gutman et al.			
	DZ	5,437,607	8/1/1995	Taylor			
	EA	5,438,529	8/1/1995	Rosenbert et al.			
	EB	5,451,924	9/19/1995	Massimino et al.			
	EC	5,454,722	10/3/1995	Holland et al.			
	ED	5,459,382	10/17/1995	Jacobus et al.			
	EE	5,466,213	10/14/1995	Hogan et al.			
	EF	5,482,472	1/9/1996	Garoni et al.			
	EG	5,483,254	1/9/1996	Powell			
	EH	5,483,961	1/16/1996	Kelly et al.			
	EI	5,509,810	4/23/1996	Schertz et al.			
	EJ	5,510,832	4/23/1996	Garcia			
	EK	5,513,992	5/7/1996	Refait			
	EL	5,518,406	5/21/1996	Waters			
	EM	5,531,227	7/2/1996	Schneider			
	EN	5,546,943	8/20/1996	Gould			
	EO	5,547,382	8/20/1996	Yamasaki et al.			
	EP	5,552,995	9/3/1996	Sebastian			
	EQ	5,559,412	9/24/1996	Schuler			
	ER	5,575,761	11/19/1996	Hajianpour			
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
	ES	IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device with Force and Tactile Feedback", vol. 32, no. 9B, February 1990.					
	ET	Iwata, "Pen-Based Haptic Virtual Environment", IEEE, 1993, pp. 287-292.					
	EU	Jacobsen et al., "High Performance, Dextrous Telerobotic Manipulator with Force Reflection", Intervention/ROV '91, Conference & Exposition, May 21-23, 1991, pp. 213-218.					
	EV	Johnson, "Shape-Memory Alloy Tactical Feedback Actuator", Armstrong Aerospace Medical Research Laboratory, August 1990, pp. 1-33.					
Examiner					Date Considered		
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Init.		Document No.	Date	Name	Class	Subclass	Filing Date
	EW	5,576,727	11/19/1996	Rosenberg et al.			
	EX	5,589,854	12/31/1996	Tsai			
	EY	5,593,306	1/14/1997	Kohnke			
	EZ	5,609,485	3/11/1997	Bergman et al.			
	FA	5,623,582	4/22/1997	Rosenberg			
	FB	5,629,594	5/13/1997	Jacobus et al.			
	FC	5,666,138	9/9/1997	Culver			
	FD	5,682,886	1/4/1997	Delp et al.			
	FE	5,687,259	11/11/1997	Linford			
	FF	5,690,582	11/25/1997	Ulrich et al.			
	FG	5,691,898	11/25/1997	Rosenberg et al.			
	FH	5,701,140	12/23/1997	Rosenberg et al.			
	FI	5,704,791	1/6/1998	Gillio			
	FJ	5,721,566	2/24/1998	Rosenberg et al.			
	FK	5,722,836	3/3/1998	Younker			
	FL	5,724,264	3/3/1998	Rosenberg et al.			
	FM	5,731,804	3/24/1998	Rosenberg			
	FN	5,734,373	3/31/1998	Rosenberg et al.			
	FO	5,739,811	4/14/1998	Rosenberg et al.			
	FP	5,740,802	4/21/1998	Nafis et al.			
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
	FQ	Jones et al., "A Perceptual Analysis of Stiffness", Experimental Brain Research, vol. 79, no. 1, 1990, pp. 150-156.					
	FR	Kacamarek et al., "Tactile Displays", Virtual Environment Technologies, Chapter 9, 1995, pp. 349-414.					
	FS	Kontarinis et al., "Display of High-Frequency Tactile Information to Teleoperators", SPIE vol. 2057, 1993, pp. 40-50.					
	FT	Kontarinis et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments", Presence, 1995, pp. 1-24.					
Examiner					Date Considered		
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Init.		Document No.	Date	Name	Class	Subclass	Filing Date
	FU	5,742,278	4/21/1998	Chen et al.			
	FV	5,746,753	5/5/1998	Sullivan et al.			
	FW	5,755,577	5/26/1998	Gillio			
	FX	5,766,016	6/16/1998	Sinclair et al.			
	FY	5,767,839	6/16/1998	Rosenberg			
	FZ	5,768,134	6/16/1998	Swaelens et al.			
	GA	5,769,640	6/23/1998	Jacobus et al.			
	GB	5,769,650	6/23/1998	Aoyama et al.			
	GC	5,772,836	6/30/1998	Ogawa			
	GD	5,785,630	7/28/1998	Bobick et al.			
	GE	5,791,908	8/11/1998	Gillio			
	GF	5,800,177	9/1/1998	Gillio			
	GG	5,800,178	9/1/1998	Gillio			
	GH	5,805,140	9/8/1998	Rosenberg et al.			
	GI	5,807,115	9/15/1998	Hu			
	GJ	5,817,107	10/6/1998	Schaller			
	GK	5,821,920	10/13/1998	Rosenberg et al.			
	GL	5,825,308	10/20/1998	Rosenberg			
	GM	5,825,941	10/20/1998	Linford et al.			
	GN	5,828,197	10/27/1998	Martin et al.			
	GO	5,853,292	12/29/1998	Eggert et al.			
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
	GP	Lake, "CYBERMAN from Logitech, 1994.					
	GQ	Marcus, "Touch Feedback in Surgery", Proceeding Cutting Edge", September 8-11, 1994, pp. 96-97.					
	GR	McAfee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual", January 1988.					
	GS	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display", Ph.D. Dissertation, MIT, June 1995.					
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Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
	GT	5,855,583	1/5/1999	Wang et al.				
	GU	5,873,731	2/23/1999	Prendergast				
	GV	5,873,732	2/23/1999	Hasson				
	GW	5,880,976	3/9/1999	DiGioia III et al.				
	GX	5,882,206	3/16/1999	Gillio				
	GY	5,882,207	3/16/1999	Lampotang et al.				
	GZ	5,889,670	3/30/1999	Schuler et al.				
	HA	5,890,908	4/6/1999	Lampotang et al.				
	HB	5,891,131	4/6/1999	Rajan et al.				
	HC	5,909,380	6/1/1999	Dubois et al.				
	HD	5,941,710	8/24/1999	Lampotang et al.				
	HE	5,945,056	8/31/1999	Dau et al.				
	HF	5,947,743	9/7/1999	Hasson				
	HG	5,956,040	9/21/1999	Asano et al.				
	HH	5,967,790	10/19/1999	Strover et al.				
	HI	5,995,738	11/30/1999	DiGioia III et al.				
	HJ	6,057,828	5/2/2000	Rosenberg et al.				
	HK	6,062,865	5/16/2000	Bailey				
	HL	6,086,528	7/11/2000	Adair				
	HM	6,104,382	8/15/2000	Martin et al.				
	HN	6,111,577	8/29/2000	Zilles et al.				
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)								
	HO	Noll, "Man-Machine Tactile", SID Journal, July/August 1972.						
	HP	Ouhyoung, et al., "A Low-Cost Force Feedback Joystick and its Use in PC Video Games", IEEE Transactions on Consumer Electronics, vol. 41, no. 3, August 1995.						
	HQ	Ouh-young, "Force Display in Molecular Docking", Doctoral Dissertation, 1990, pp. 1-369.						
	HR	Ouhyoung et al., "The Development of a Low-Cost Force Feedback Joystick and its Use in the Virtual Environment", Proceedings of the Third Pacific Conference on Computer Graphics and Applications, August 21-24, 1995, pp. 309-319.						
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U.S. Patent Documents							
Init.		Document No.	Date	Name	Class	Subclass	Filing Date
	HS	6,160,489	12/12/2000	Perry et al.			
	HT	6,223,100	4/24/2001	Green			
	HU	6,377,011	4/23/2002	Ben-Ur			
	HV	6,422,941	7/23/2002	Thorner et al.			
	HW	6,876,891	4/5/2005	Schuler et al.			
	HX	Des. 233,238	10/15/1974	Reid et al.			
	HY	Des. 272833	2/28/1984	van Assche et al.			
	HZ	Des. 392878	3/31/1998	Nordstom et al.			
Foreign Documents							
							Translation
Init.		Document No.	Date	Country	Class	Subclass	Yes No
Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)							
	IA	Patrick et al., "Design and Testing of a Non-Reactive, Fingertip, Tactile Display for Interaction with Remote Environment", Cooperative Intelligent Robotics in Space, SPIE vol. 1387, 1990, pp. 215-222.					
	IB	Patrick, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments", August 1990, pp. 1-109.					
	IC	Pimentel et al., "Virtual Reality Through the New Looking Glass, 1994, pp. 41-202.					
	ID	Rabinowitz et al., "Multidimensional Tactile Displays: Identification of Vibratory Intensity, Frequency, and Contractor Area", Journal of the Acoustical Society of America vol. 82, no. 4, October 1987, pp. 1243-1252.					
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Applicant:
David Alexander et al.

Filed:
September 9, 2003

Group:
3714

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	IE	Rosenberg, "Virtual Fixtures: Preceptual Overlays Enhance Operator Performance in Telepresence Tasks", Ph.D. Dissertation, June 1994.
	IF	Russo et al., "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices", Advances in Robotics ASME, DSC-vol. 42, 1992, pp. 63-70.
	IG	Russo, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick", MIT Libraries Archives, May 1990, pp. 1-131.
	IH	Safe Flight Instrument Corporation, Component Maintenance Manual Coaxial Control Shaker Part No. C-25502, July 1, 1987, 3 pages.

Date Considered

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